

PATENT SPECIFICATION

DRAWINGS ATTACHED

898.653



Date of filing Complete Specification: Nov. 30, 1960.

Application Date: Feb. 4, 1960.

No. 3948/60.

Complete Specification Published: June 14, 1962.

Index at acceptance:—Class 133, C.

International Classification:—A45f.

COMPLETE SPECIFICATION

Improvements in or relating to Articles of Sleeping Equipment

I, THOMAS SLATER, a British subject, of Chester Street, Prestwich, in the County of Lancaster, do hereby declare the invention, for which I pray that a patent may be granted to me, and the method by which it is to be performed, to be particularly described in and by the following statement:—

This invention concerns articles of sleeping equipment.

The invention is more particularly concerned with so-called "sleeping bags" which are usually substantially rectangular in shape and comprise two superimposed layers or panels which are secured together along the two sides of the rectangle and along one end thereof, the other end (hereinafter called the head end) being open to permit access to within the bag.

According to the present invention an article of sleeping equipment comprises a sleeping bag, to the head of which is attached a panel, the panel being in sections and adapted to be folded along at least one fold line transverse to the longitudinal direction of the sleeping bag to form a pillow, there being fastening means at or adjacent the free transverse edge of the pillow, such that when the two halves of said edge are brought together by folding the two free corners of the pillow upwards and inwards, said fastening means can be engaged so as to hold the edges together to form a hood adapted to receive the head of a recumbent person in the sleeping bag.

Preferably the panel is in three sections having two transverse fold lines.

The fastening means is advantageously located so as to be along the transverse fold line nearest to the head of the sleeping bag, so that on completion of the transverse folding of the panel to form the pillow, the fastening means is disposed at the free transverse edge of the pillow.

The fastening means may comprise a sliding clasp fastener in two halves and positioned so that the two halves register and can be engaged on the said subsequent folding of the

pillow into halves.

Draw tapes may be provided so that the hood may be fastened under the chin of a recumbent person in the sleeping bag.

The panel may, advantageously, be large enough to accommodate the sleeping bag when the latter is folded and rolled and may be provided with tapes whereby the whole article of sleeping equipment may be secured in the folded and rolled state. The panel thus may form an exterior cover.

Advantageously, the article of sleeping equipment is made of a waterproof material, and it may be quilted and lined for extra warmth and comfort.

The invention will be described further, by way of example, with reference to one preferred practical embodiment thereof, illustrated in the accompanying drawings, it being understood that the precise details, hereinafter described, are in no way limitative of the scope of the present invention. In the drawings:—

Fig. 1 is a perspective view of the article in its fully unfolded state,

Fig. 2 is a fragmentary perspective view corresponding to Fig. 1 but showing the panel folded to form a pillow,

Fig. 3 is a view similar to Fig. 2, but showing the pillow folded to form a hood,

Fig. 4 is a perspective view corresponding to Fig. 3, but taken from a position such as to show the interior of the hood,

Fig. 5 is a view, similar to Fig. 1, but showing the sleeping bag rolled up ready for packing, and

Fig. 6 is a view similar to Fig. 5 but showing the panel enclosing the sleeping bag and forming an exterior cover therefor.

As shown in the drawings, the article of sleeping equipment in accordance with the present invention comprises a sleeping bag 10. This sleeping bag 10 is substantially rectangular in shape and comprises two superimposed layers or panels 11, 12 of a quilted material

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which are secured together along the two sides of the rectangle and one end thereof, the head end 13 being open to permit access to within the bag 10.

5 The sleeping bag is made of a quilted material and has a first sliding clasp fastener 14 extending partly along one longitudinal side from the head end 13 of the sleeping bag 10. This fastener 14 serves to facilitate entry into the bag 10.

10 Secured to the head end 13 of the sleeping bag layer or panel 12, is a rectangular panel 15 of padded material being connected to the sleeping bag 10 by one transverse edge 16 thereof. This panel is adapted to be folded along two transverse fold lines 17, 18 so as to form a pillow adjacent the head end 13 of the sleeping bag 10, as shown in Fig. 2. This is the first function of the panel 15.

20 Extending along the transverse fold line 17 of the panel which in the folded (or 'pillow') state is remote from the head end 13 of the sleeping bag, is a second sliding clasp fastener 21 (fig. 3) in two halves 19, 20 (Fig. 2), these halves 19, 20 extending in opposite directions from the centre of the said fold line 17 along the fold line.

30 If the pillow is folded by bringing the two free corners upwards and inwards so that the two halves 19, 20 of the second sliding clasp fastener 21 register and can be engaged with one another, as shown in Figs. 3 and 4, thus holding the two corners together, the pillow is formed into a hood 22. This is the second function of the panel 15.

35 Each longitudinal edge of the panel has a hem 23, open at the end 24 remote from the sleeping bag 10, in which hems respective draw tapes 25 are accommodated. At the end of each longitudinal side of the panel 15 adjacent the head end 13 of the sleeping bag 10, the respective draw tape 25 is folded over to form a loop 26 and is then secured to the panel to prevent withdrawal of the draw tapes 25 from their respective hems 23. When it is desired to encircle the head of a recumbent person in the sleeping bag the panel 15 is folded and fastened in its hood form as shown in Fig. 3. The draw tapes 25 are then passed through their respective loops 26 as shown in Figs. 3 and 4 and tied together in a bow or the like beneath the chin of the recumbent person in the sleeping bag 10.

55 The panel 15 has a third function and this is to act as an outer casing for the sleeping bag 10 when the bag 10 is folded e.g. for storage.

60 To achieve this, the sleeping bag is first folded, along two symmetrical longitudinal fold lines, so as to reduce it to about half of its open width. It is then rolled as shown in Fig. 5 from the foot to the head as tightly as possible. The panel 15 is then wrapped around the rolled and folded sleeping bag 10 and the draw tapes 25 are passed through their respec-

tive loops 26 and drawn tight and each draw tape is then tied as shown in Fig. 6 to prevent unrolling of the bag 10. There may also be provided a third tape 27 which will encircle the bag and the panel in the rolled state, along a central circumferential line around the rolled bag and panel. The rolled and folded bag is then securely tied to form a substantially cylindrical shape. The panel then substantially encloses the sleeping bag and the article of sleeping equipment is easily carried.

The invention is not confined to the precise details of the foregoing example and variations may be made thereto. For instance, the fastener 21 need not be a sliding clasp fastener as any other suitable fastener or fasteners (e.g. press studs) may be used.

The sleeping bag 10 need not have the first-mentioned sliding clasp fastener 14, and in fact, the sleeping bag may be of any conventional form providing one layer or panel thereof presents one transverse edge, at the head end, to which the panel 15 may be secured.

The panel 15 may be adapted to be folded only once along one transverse fold line.

An article of sleeping equipment according to the present invention has the advantage that it is easily portable and the panel provides a comfortable pillow, and extremely thermally efficient hood for a recumbent person in the sleeping bag; and a particularly convenient cover for the sleeping bag.

WHAT I CLAIM IS:—

1. An article of sleeping equipment comprising a sleeping bag, to the head of which is attached a panel, the panel being in sections and adapted to be folded along at least one fold line transverse to the longitudinal direction of the sleeping bag to form a pillow, there being fastening means at or adjacent the free transverse edge of the pillow, such that when the two halves of said edge are brought together by folding the two free corners of the pillow upwards and inwards, said fastening means can be engaged so as to hold the edges together to form a hood adapted to receive the head of a recumbent person in the sleeping bag.

2. An article of sleeping equipment as claimed in claim 1 wherein the panel is in three sections having two transverse fold lines.

3. An article of sleeping equipment as claimed in claim 1 or 2 wherein the fastening means is located so as to be along the transverse fold line nearest to the head of the sleeping bag, so that on completion of the transverse folding of the panel to form the pillow, the fastening means is disposed at the free transverse edge of the pillow.

4. An article of sleeping equipment as claimed in claim 1, 2 or 3 wherein the fastening means comprises a sliding clasp fastener in two halves and positioned so that the two halves register and can be engaged on the said subsequent folding of the pillow into halves.

5. An article of sleeping equipment as claimed in any preceding claim, having draw tapes provided so that the hood may be fastened under the chin of a recumbent person in the sleeping bag. 15
6. An article of sleeping equipment as claimed in any preceding claim wherein the panel is large enough to accommodate the sleeping bag when the latter is folded and rolled and may be provided with tapes whereby the whole article of sleeping equipment may be secured in the folded and rolled state. 20
7. An article of sleeping equipment as claimed in any preceding claim, characterised in that it is made of waterproof material. 15
8. An article of sleeping equipment as claimed in any preceding claim, characterised in that it is quilted and lined. 15
9. An article of sleeping equipment substantially as hereinbefore described in the reference to and as illustrated in the accompanying drawings. 20
- For the Applicant:
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PROVISIONAL SPECIFICATION

Improvements in or relating to Articles of Sleeping Equipment

I, THOMAS SLATER, a British subject, of Chester Street, Prestwich, in the County of Lancaster, do hereby declare this invention to be described in the following statement:—

This invention concerns articles of sleeping equipment.

The invention is more particularly concerned with so-called "sleeping bags" which are usually substantially rectangular in shape and comprise two superimposed layers or panels which are secured together along the two sides of the rectangle and along one end thereof, the other end (hereinafter called the head end) being open to permit access to within the bag.

According to the present invention an article of sleeping equipment comprises a sleeping bag, to the head of which is attached a panel, the panel being in sections and adapted to be folded along at least one fold line transverse to the longitudinal direction of the sleeping bag to form a pillow, there being fastening means whereby, on subsequent folding of the pillow into halves on a line extending longitudinally relative to the sleeping bag and engagement of the fastening means, a hood is formed adapted to receive the head of a recumbent person in the sleeping bag.

Preferably the panel is in three sections having two transverse fold lines.

The fastening means is advantageously located so as to be along the transverse fold line nearest to the head of the sleeping bag, so that on completion of the transverse folding of the panel to form the pillow, the fastening means is disposed at the free transverse edge of the pillow.

The fastening means may comprise a sliding clasp fastener in two halves and positioned so that the two halves register and can be engaged on the said subsequent folding of the pillow into halves.

Draw tapes may be provided so that the hood may be fastened under the chin of a recumbent person in the sleeping bag.

The panel may, advantageously, be large

enough to accommodate the sleeping bag when the latter is folded and rolled and may be provided with tapes whereby the whole article of sleeping equipment may be secured in the folded and rolled state. The panel thus may form an exterior cover. 70

Advantageously, the article of sleeping equipment is made of a waterproof material, and it may be quilted and lined for extra warmth and comfort. 75

The invention will be described further, by way of example, with reference to one preferred practical embodiment thereof, it being understood that the precise details, hereinafter described, are in no way limitative of the scope of the present invention. 80

An article of sleeping equipment in accordance with the present invention comprises a sleeping bag. The sleeping bag is substantially rectangular in shape and comprises two superimposed layers or panels of a quilted material which are secured together along the two sides of the rectangle and one end thereof, the head end being open to permit access to within the bag. 85

The sleeping bag is made of a quilted material and has a first sliding clasp fastener extending partly along one longitudinal side from the head end of the sleeping bag. This fastener serves to facilitate entry into the bag. 90

Secured to the head end of one of the sleeping bag layers or panels, is a rectangular panel of padded material being connected to the sleeping bag by one transverse edge thereof. This panel is adapted to be folded along two transverse fold lines so as to form a pillow adjacent the head end of the sleeping bag. This is the first function of the panel. 95

Extending along that transverse fold line of the panel, which in the folded (or 'pillow') state is remote from the head end of the sleeping bag, is a second sliding clasp fastener in two halves, these extending in opposite directions from the centre of the said fold line along the fold line. 100

If the pillow is folded longitudinally along 105

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a central longitudinal fold line, the two halves of the second sliding clasp fastener register and can be engaged with one another. This forms the pillow into a hood. This is the second function of the panel.

Each longitudinal edge of the panel has a hem, open at the end remote from the sleeping bag, in which hem the aforesaid draw tapes are accommodated. At the end of each longitudinal side of the panel adjacent the head end of the sleeping bag, the respective draw tape is folded over to form a loop and is then secured to the panel to prevent withdrawal of the draw tapes from their respective hems. When it is desired to encircle the head of a recumbent person the panel is folded and fastened to form a hood. The draw tapes are then passed through their respective loops and tied together in a bow or the like beneath the chin of the recumbent person in the sleeping bag.

The panel has a third function and this is to act as an outer casing for the sleeping bag when the bag is folded e.g. for storage.

To achieve this, the sleeping bag is first folded, along two symmetrical longitudinal fold lines, so as to reduce it to half of its open width. It is then rolled from the foot to the head as tightly as possible. The panel is then wrapped around the rolled and folded sleeping bag and the draw tapes are passed through their respective loops and drawn tight and each draw tape is then tied to prevent unrolling of the bag. There may also be provided a third

tape which will encircle the bag and the panel in the rolled state, along a central longitudinal line of the rolled bag and panel. The rolled and folded bag is then securely tied to form a substantially cylindrical shape. The panel then substantially encloses the sleeping bag and the article of sleeping equipment is easily carried.

The invention is not confined to the precise details of the foregoing example and variations may be made thereto. For instance, the fastener means need not be a sliding clasp fastener as any other suitable fastener or fasteners (e.g. press studs) may be used.

The sleeping bag need not have the first-mentioned sliding clasp fastener and, in fact, the sleeping bag may be of any conventional form providing one layer or panel thereof presents one transverse edge, at the head end, to which the panel may be secured.

The panel may be adapted to be folded only once along one transverse fold line.

An article of sleeping equipment according to the present invention has the advantages that it is easily portable and the panel provides a comfortable pillow; an extremely thermally efficient hood for a recumbent person in the sleeping bag; and a particularly convenient cover for the sleeping bag.

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This drawing is a reproduction of
the Original on a reduced scale.

